International Patent Application

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Title: Notebook with Integrated Wireless Charging Module for Mobile Devices

Abstract

The invention relates to portable computers and consumer electronics. A notebook computer is disclosed
that integrates a wireless charging module for mobile devices under the palm rest area of the chassis,
adjacent to the touchpad, without altering the external appearance. The module allows wireless power
transfer from the notebook’s internal battery to a mobile device using standard protocols. Activation may
be performed manually or automatically when a compatible device is detected.

Description

Technical Field:

The invention relates to notebook computers and charging systems for mobile devices.

Background Art:

Modern notebooks provide multiple ports for external devices, but do not integrate wireless charging
capabilities into their chassis. Existing solutions require external chargers or accessories, reducing
convenience.

Disclosure of Invention:

The proposed invention integrates a wireless charging module beneath the notebook palm rest, adjacent
to the touchpad. This placement utilizes unused space and preserves the original form factor. The charging module is connected to the notebook's power controller to ensure proper distribution of energy
and safety. The module may be activated either manually (via button or system settings) or automatically
upon device placement. In certain embodiments, multiple modules may be included for simultaneous
charging of two or more devices. A light indicator may signal charging status.

Brief Description of Drawings:

- Fig. 1: Wireless charging module positioned to the right of the touchpad.
- Fig. 2: Wireless charging module positioned to the left of the touchpad.
- Fig. 3: Two modules positioned on both sides of the touchpad.

Claims

1. A notebook comprising a chassis, a battery, a motherboard and a touchpad, characterized in that a
wireless charging module is integrated beneath the chassis surface adjacent to the touchpad, configured
to transfer energy from the notebook battery to a mobile device via a wireless protocol.
2. The notebook of claim 1, wherein the charging module is connected to the notebook’s power controller
to ensure energy distribution and overload protection.
3. The notebook of claim 1 or 2, wherein multiple wireless charging modules are integrated for simultaneous charging of more than one device.
4. The notebook of any preceding claim, wherein the chassis surface above the charging module is made
of non-metallic material permeable to electromagnetic fields.
5. The notebook of any preceding claim, wherein activation of the wireless charging module is selectable
between:
a) manual activation via a dedicated button or system settings;
b) automatic activation upon detection of a compatible mobile device.

Drawings

Fig. 1: Wireless charging module (right of touchpad). Fig. 2: Wireless charging module (left of touchpad).

Fig. 2: Wireless charging module (left of touchpad).

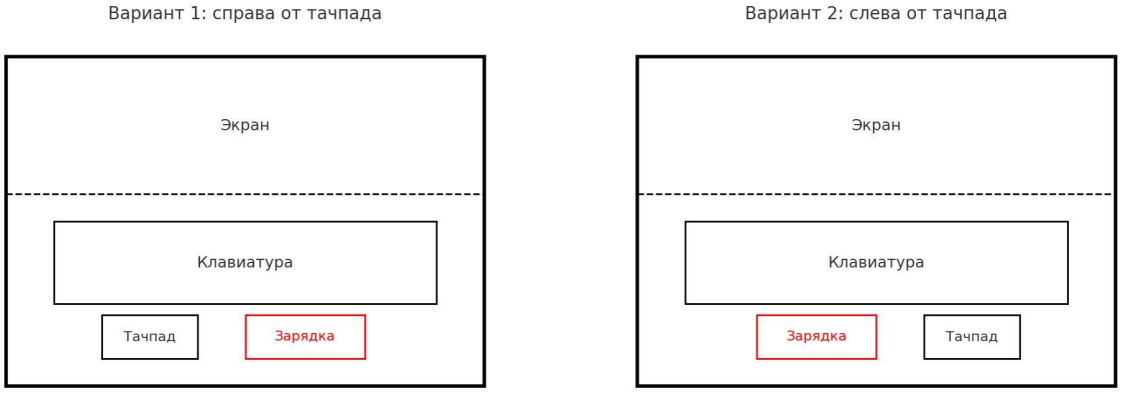

Fig. 3: Dual wireless charging modules (left and right of touchpad).